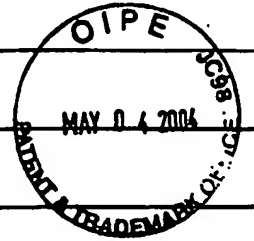


Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P23682Serial No.
10/646,872INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
Hiroshi NOMURAFiling Date
August 25, 2003Group
2872

U.S. PATENT DOCUMENTS























EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>LL</i>	2004	/ 0 0 4 2 0 9 5	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 9 3	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 6 2 5 3 6	04/01/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 6 8	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 7 0	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 6 2 5 3 7	04/01/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 7 2	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 9 1	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 8 9	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 7 1	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 7 7 7	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 7 7 8	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 6 9	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 6 7	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 7 7 5	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 9 6	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 9 0	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 7 7 6	03/04/04	NOMURA			
<i>LL</i>	2004	/ 0 0 5 1 9 8 1	03/18/04	NOMURA			
<i>LL</i>	2004	/ 0 0 4 2 0 9 2	03/04/04	NOMURA			
<i>LL</i>		6 3 6 6 3 2 3	04/02/02	SHONO			
<i>LL</i>		6 1 1 5 1 9 0	09/05/00	HIRAI			
<i>LL</i>		6 0 6 4 5 3 3	05/16/00	KENIN et al.			
<i>LL</i>	2003	/ 0 0 8 1 3 2 5	05/01/03	NOMURA et al.			
<i>LL</i>	2001	/ 0 0 2 4 5 7 3	09/27/01	NOMURA et al.			
<i>LL</i>	2002	/ 0 1 3 5 9 0 0	09/26/02	NOMURA et al.			
<i>LL</i>		6 0 7 5 6 5 5	06/13/00	FUNAHASHI			

EXAMINER

DATE CONSIDERED

9/1/04

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23682		Serial No. 10/646,872							
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA									
				Filing Date August 25, 2003		Group 2872							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	YEAR	/ 0	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2002	/ 0	1	3	5	9	0	1	09/26/02	NOMURA et al.			
	2003	/ 0	0	8	1	3	2	7	05/01/03	NOMURA et al.			
	2002	/ 0	1	3	5	8	9	6	09/26/03	NOMURA et al.			
		6	0	5	5	1	1	6	04/25/00	NOMURA et al.			
		6	2	0	4	9	7	7	03/20/01	IWASA			
		5	4	3	0	5	1	6	07/04/95	UZIIE et al.			
	2003	/ 0	0	8	1	9	4	8	05/01/03	NOMURA et al.			
	2001	/ 0	0	1	9	4	5	8	09/06/01	NOMURA et al.			
		4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.			
		5	8	1	8	6	4	7	10/06/98	NISHIO et al.			
		5	7	3	1	9	1	3	03/24/98	IMANARI			
		5	7	3	9	9	6	2	04/14/98	ASAKURA et al.			
	2003	/ 0	1	5	6	8	3	2	08/21/03	NOMURA et al.			
		5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.			
		6	0	5	2	5	3	5	04/18/00	UNO			
		5	2	2	3	8	7	3	06/29/93	TSUBOI			
		5	0	8	6	3	1	2	02/04/92	TANAKA et al.			
		5	4	9	9	1	4	3	03/12/96	SAKAMOTO et al.			
		6	0	6	9	7	4	5	05/30/00	FUJII et al.			
		6	3	2	4	0	1	9	11/27/01	TAKANASHI et al.			
		5	4	8	5	3	1	5	01/16/96	NOMURA et al.			
EXAMINER 										DATE CONSIDERED <u>9/1/04</u>			

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23682		Serial No. 10/646,872	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA			
				Filing Date August 25, 2003		Group 2872	

U.S. PATENT DOCUMENTS											
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				

FOREIGN PATENT DOCUMENTS											
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO				
		58 - 1 0 7 0 8	01/21/83	JAPAN							
		2 3 4 4 6 6 1	06/14/00	UNITED KINGDOM							
		2 2 6 2 3 5 6	06/16/93	UNITED KINGDOM							
	2003	- 2 0 7 7 0 9	07/25/03	JAPAN							
		2 3 0 9 5 5 1	07/30/97	UNITED KINGDOM							
		2 3 4 4 6 6 2	06/14/00	UNITED KINGDOM							
		2 2 6 1 2 9 8	05/12/93	UNITED KINGDOM							
	2002	- 2 7 7 7 1 9	09/25/02	JAPAN							
	10	- 2 8 2 3 9 4	10/23/98	JAPAN							
	58	- 1 6 2 9 1 4	09/27/83	JAPAN							
	0 6 3 4 6 8 0	01/18/95	E.P.O.								
	10 - 3 2 7 4 0	02/03/98	JAPAN			X					
7	- 2 8 8 7 2 4	10/31/95	JAPAN			X					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	1	English Language Abstract of JP 58-10708.
	2	English Language Abstract of JP 2003-207709.
	3	English Language Abstract of JP 2002-277719.
	4	English Language Abstract of JP 10-282394.
	5	English Language Abstract of JP 58-162914.

EXAMINER	DATE CONSIDERED <u>9/1/04</u>
----------	-------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P23682Serial No.
10/646,872INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Hiroshi NOMURAFiling Date
August 25, 2003Group
2872

U.S. PATENT DOCUMENTS

EXAMINER
INITIALS
& TRADEMARK OFFICE

DOCUMENT NUMBER

DATE

NAME

CLASS

SUBCLASS

FILING DATE
IF APPROPRIATE

4 5 2 5 0 5 0

06/25/85

OHASHI

4 6 4 3 5 5 5

02/17/87

WAKABAYASHI

4 7 2 1 9 7 2

01/26/88

WAKABAYASHI

4 7 9 2 8 2 2

12/20/88

AKIYAMA et al.

5 8 1 8 6 4 7

10/06/98

NISHIO et al.

6 0 3 1 9 9 8

02/29/00

SHONO

4 4 5 1 1 2 9

05/29/84

IKARI et al.

4 6 4 3 5 5 4

02/17/87

OGAWA

4 7 7 1 3 0 3

09/13/88

MATSUMOTO et al.

4 8 8 7 1 0 7

12/12/89

NAKAMURA et al.

5 1 3 6 3 2 4

08/04/92

TSUBOI et al.

5 7 6 5 0 4 9

06/09/98

HASE et al.

5 8 3 2 3 2 6

11/03/98

TANAKA

6 3 6 6 3 2 3

04/02/02

SHONO

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER

DATE

COUNTRY

CLASS

SUBCLASS

TRANSLATION
YES NO

5 8 1 4 5 9 3 0

08/31/83

JAPAN

6 1 - 6 9 0 0 2

04/09/86

JAPAN

6 1 2 7 0 7 3 7

12/01/86

JAPAN

6 3 1 4 9 6 2 9

06/22/88

JAPAN

6 4 - 3 4 6 2 3

03/02/89

JAPAN

X

6 - 1 8 7 7 7

01/28/94

JAPAN

X

7 - 1 9 1 2 4 9

07/28/95

JAPAN

1 1 1 0 9 2 0 3

04/23/99

JAPAN

EXAMINER

DATE CONSIDERED

9/1/04

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.